

PATENT COOPERATION TREATY
PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 15664PCT00	FOR FURTHER ACTION	see Form PCT/ISA/220 as well as, where applicable, item 5 below.
International application No. PCT/DK2004/000741	International filing date (day/month/year) 28/10/2004	(Earliest) Priority Date (day/month/year) 30/10/2003
Applicant PHARMEXA A/S		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 7 sheets.

It is also accompanied by a copy of each prior art document cited in this report.

1. **Basis of the report**
 - a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).
 - b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.
2. Certain claims were found unsearchable (See Box II).
3. Unity of invention is lacking (see Box III).
4. With regard to the title,

the text is approved as submitted by the applicant.

the text has been established by this Authority to read as follows:
5. With regard to the abstract,

the text is approved as submitted by the applicant.

the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.
6. With regard to the drawings,
 - a. the figure of the drawings to be published with the abstract is Figure No. _____

as suggested by the applicant.

as selected by this Authority, because the applicant failed to suggest a figure.

as selected by this Authority, because this figure better characterizes the invention.
 - b. none of the figures is to be published with the abstract.

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Box No. I Nucleotide and/or amino acid sequence(s) (Continuation of item 1.b of the first sheet)

1. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, the international search was carried out on the basis of:
 - a. type of material
 - a sequence listing
 - table(s) related to the sequence listing
 - b. format of material
 - in written format
 - in computer readable form
 - c. time of filing/furnishing
 - contained in the international application as filed
 - filed together with the international application in computer readable form
 - furnished subsequently to this Authority for the purpose of search
2. In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
3. Additional comments:

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Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
Although claims 1-37 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-64 (partially)

Remark on Protest

The additional search fees were accompanied by the applicant's protest.
 No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-64 (all partially)

Method to downregulate VEGF, compositions, vector, transformed cells all based on VEGF-A isoform 121 (SEQ ID NO:5).

2. claims: claims 1-64 (all partially)

Method to downregulate VEGF, compositions, vector, transformed cells all based on VEGF-A isoform 165 (SEQ ID NO:4).

3. claims: 1-17,19-64 (all partially)

Method to downregulate VEGF, compositions, vector, transformed cells all based on a VEGF protein other than VEGF-A isoform 121 (SEQ ID NO:5) or VEGF-A isoform 165 (SEQ ID NO:4).

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A. CLASSIFICATION OF SUBJECT MATTER					
IPC 7	C07K14/52	A61K38/18	C07K7/06	C07K7/08	C07K14/435
	A61K39/00	A61K48/00	A61K39/385	A61K38/19	
According to International Patent Classification (IPC) or to both national classification and IPC					
B. FIELDS SEARCHED					
Minimum documentation searched (classification system followed by classification symbols)					
IPC 7 C07K A61K					
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched					
Electronic data base consulted during the international search (name of data base and, where practical, search terms used)					
EPO-Internal, PAJ, BIOSIS, WPI Data, EMBASE, Sequence Search					
C. DOCUMENTS CONSIDERED TO BE RELEVANT					
Category	Citation of document, with indication, where appropriate, of the relevant passages				Relevant to claim No.
Y	WO 02/097044 A (WONG ALBERT J ; UNIV JEFFERSON (US)) 5 December 2002 (2002-12-05) page 2 - page 38; claims 27,29,34; examples 1-8 -----				1-64
Y	WO 03/015812 A (NIELSEN KLAUS GREGORIUS ; KOEFOED PETER (DK); PHARMEXA AS (DK); JENSEN) 27 February 2003 (2003-02-27) the whole document -----				1-64
Y	WO 02/11759 A (NEOVACS ; ZAGURY DANIEL (FR); BIZZINI BERNARD (FR); LE BUANEC HELENE () 14 February 2002 (2002-02-14) the whole document ----- -/-				1-64
<input checked="" type="checkbox"/> Further documents are listed in the continuation of box C.			<input checked="" type="checkbox"/> Patent family members are listed in annex.		
* Special categories of cited documents :					
A document defining the general state of the art which is not considered to be of particular relevance					
E earlier document but published on or after the international filing date					
L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)					
O document referring to an oral disclosure, use, exhibition or other means					
P document published prior to the international filing date but later than the priority date claimed					
T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention					
X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone					
Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art					
Z document member of the same patent family					
Date of the actual completion of the international search			Date of mailing of the international search report		
17 January 2005			04.05.2005		
Name and mailing address of the ISA			Authorized officer		
European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel: (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016			Gruber, A		

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WEI Y-Q ET AL: "Immunogene therapy of tumors with vaccine based on <i>Xenopus</i> homologous vascular endothelial growth factor as a model antigen" PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF USA, NATIONAL ACADEMY OF SCIENCE, WASHINGTON, US, vol. 98, no. 20, 25 September 2001 (2001-09-25), pages 11545-11550, XP002248645 ISSN: 0027-8424 the whole document -----	1-64
A	PATENT ABSTRACTS OF JAPAN vol. 1997, no. 01, 31 January 1997 (1997-01-31) -& JP 08 225462 A (TOAGOSEI CO LTD), 3 September 1996 (1996-09-03) the whole document -----	1-64
A	PATENT ABSTRACTS OF JAPAN vol. 1998, no. 04, 31 March 1998 (1998-03-31) -& JP 09 316000 A (TOAGOSEI CO LTD), 9 December 1997 (1997-12-09) the whole document -----	1-64
A	WO 86/07383 A (BIOTECH RES PARTNERS LTD) 18 December 1986 (1986-12-18) cited in the application the whole document -----	1-64
A	FERRARA NAPOLEONE: "VEGF and the quest for tumour angiogenesis factors." NATURE REVIEWS CANCER, vol. 2, no. 10, October 2002 (2002-10), pages 795-803, XP008041538 ISSN: 1474-175X the whole document -----	1-64

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Information on patent family members

International Application No

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Patent document cited in search report	Publication date	Patent family member(s)		Publication date
WO 02097044	A 05-12-2002	CA 2448109 A1		05-12-2002
		CN 1511040 A		07-07-2004
		EP 1401472 A2		31-03-2004
		WO 02097044 A2		05-12-2002
		US 2003069181 A1		10-04-2003
WO 03015812	A 27-02-2003	BR 0212047 A		17-08-2004
		CA 2440197 A1		29-08-2002
		CA 2457140 A1		27-02-2004
		WO 02066056 A2		29-08-2002
		WO 03015812 A2		27-02-2003
		EP 1363664 A2		26-11-2003
		EP 1420815 A2		26-05-2004
		HR 20040218 A2		31-08-2004
		HU 0400669 A2		28-01-2005
		JP 2004529881 T		30-09-2004
		JP 2004538332 T		24-12-2004
		NZ 527720 A		24-03-2005
		US 2002119162 A1		29-08-2002
		US 2003157117 A1		21-08-2003
		US 2004191264 A1		30-09-2004
WO 0211759	A 14-02-2002	FR 2812813 A1		15-02-2002
		AU 8412201 A		18-02-2002
		CA 2418899 A1		14-02-2002
		EP 1309343 A1		14-05-2003
		WO 0211759 A1		14-02-2002
		US 2004028647 A1		12-02-2004
JP 08225462	A 03-09-1996	NONE		
JP 09316000	A 09-12-1997	NONE		
WO 8607383	A 18-12-1986	AU 5993186 A		07-01-1987
		CN 86103836 A		08-07-1987
		DK 58887 A		03-04-1987
		EP 0224574 A1		10-06-1987
		ES 8801127 A1		01-03-1988
		JP 62503073 T		10-12-1987
		WO 8607383 A1		18-12-1986